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| 0021880 | DATA SHEET |  |
| valid from: 01.01.2019 | ÖLFLEX® ROBUST 210 | |

Application

ÖLFLEX® ROBUST 210 cables are control cables for flexible use and fixed installation for a robust mechanical use. They are also suitable for use in dry, damp or wet areas. They are suitable for outdoor use if the indicated temperature range is observed. At room temperature, they are increased resistant to the effects of acids, alkalis and oils, as well as greases and plant-, animal-, mineral- or synthetic-based waxes. They are suitable for constant use in fresh water to a depth of 10 m and at a maximum water temperature of 40°C according to EN 50565-2. They are suitable for occasional, non-automated movements. The maximum tensile load is 15 N/mm² of conductor cross-section during installation and operation. Compulsory guidance is not permitted. All materials used are halogen-free.

Application range

ÖLFLEX® ROBUST 210 cables are used as flexible control cable in machine tool building, in medical technology, in laundries, in car washing equipment, in chemical industry, in composting plants, in sewage works and in submersible pumps. They are for use in the food and beverage industry, especially for production and processing equipment of milk and meat products.

Design

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| Design | based on EN 50525-2-51 resp. VDE 0285-525-2-51 |
| Conductor | fine wire strands of bare copper, acc. to IEC 60228 resp. VDE 0295, Class 5 |
| Insulation | modified PP-compound |
| Core identification code | acc. to VDE 0293, with or without GN/YE ground conductor black cores with white numbers acc. to DIN EN 50334 resp. VDE 0293-334 |
| Outer sheath | special TPE-compound colour: black, similar RAL 9005 |

Electrical properties at 20°C

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| Rated voltage | U ₀ / U: | 300 / 500 V |
| Test voltage | Core/Core: | 4000 V AC |

Mechanical and thermal properties

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| Minimum bending radius | occasional flexing: 15 x outer diameter fixed installation: 4 x outer diameter |
| Temperature range | occasional flexing: -40 °C up to +80 °C max. conductor temperature fixed installation: -50 °C up to +80 °C max. conductor temperature |
| UV resistance | acc. to EN 50618 resp. VDE 0283-618 acc. to EN 50620 resp. VDE 0285-620 acc. to EN ISO 4892-2-2013, method A (change of colour allowed) |
| Ozone resistance | acc. to EN 50396 resp. VDE 0473-396, method B |
| Oil resistance | TM5 gemäß EN 50363-4-1 bzw. VDE 0207-363-4-1 |
| Water-resistance | acc. to EN 50525-2-21 resp. VDE 0285-525-2-21 |
| Tests | acc. to IEC 60811 resp. VDE 0473, VDE 0472, EN 50395, EN 50396 |
| General requirements | These cables are conform to the EU-Directive 2014/35/EU (Low Voltage Directive) |

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